

HIGH EFFICIENCY *EX VIVO* TRANSDUCTION OF  
CELLS BY HIGH TITER RECOMBINANT  
RETROVIRAL PREPARATIONS

Abstract

Compositions and methods for the efficient *ex vivo* introduction of nucleic acid into T cells, non-dividing cells, and cells resistant to standard transduction techniques mediated by high titer recombinant retroviral preparations is described. The recombinant vector constructs carried by the recombinant retrovirus particles code for the production of one or more desired gene products from one or more corresponding genes of interest, at least one of the gene products having a therapeutic application. Upon re-introduction into a patient, the transduced cells produce a desired gene product in an amount sufficient to treat a particular disease state.

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